

TransCel[®] Azoxystrobin

2015 – 2018 EU Field Trials

Azoxystrobin 250 g/l TransCel[®] formulation

Efficacy against key cereal foliar diseases - EU 2015 & 2016

Objectives:

- To Evaluate the Efficacy & Selectivity of the TransCel[®] formulation of Azoxystrobin, Oxe[®] (250 g/l) at a range of rates against key foliar diseases of winter wheat (SEPTTR & PUC CSP) and winter barley (PYRNTE & RHYNSE)
- Identify best rate of Oxe[®] to match efficacy of standard Amistar[®] 250SC

Rates Tested (2 spray applications):

- 62.5 gai/ha (0.25l/ha), 94 gai/ha (0.376l/ha), 125 gai/ha (0.5l/ha) & 250 gai/ha (1.0l/ha)

Comparison with the standard “Amistar[®]” or “Ortiva[®]” at its recommended rate:

- 250 gai/ha (1.0l/ha) also in a 2 spray programme

Executive Summary

Oxe[®] at all rates was safe to winter wheat & winter barley in all trials over both seasons. No adverse effects on yield recorded

2015:

- Target Wheat: SEPTTR, PUCCSS, Barley: RHYNSE, PUCCSS
- Low disease levels in the North, limited data produced suggested use rate for Oxe[®] of 94-125 gai/ha
- Poor disease year for RHYNSE
- High disease levels and good data from the southern trials
- Oxe[®] at 94 gai/ha provided similar control to Amistar[®]/Ortiva[®] against SEPTTR & PYRNTE

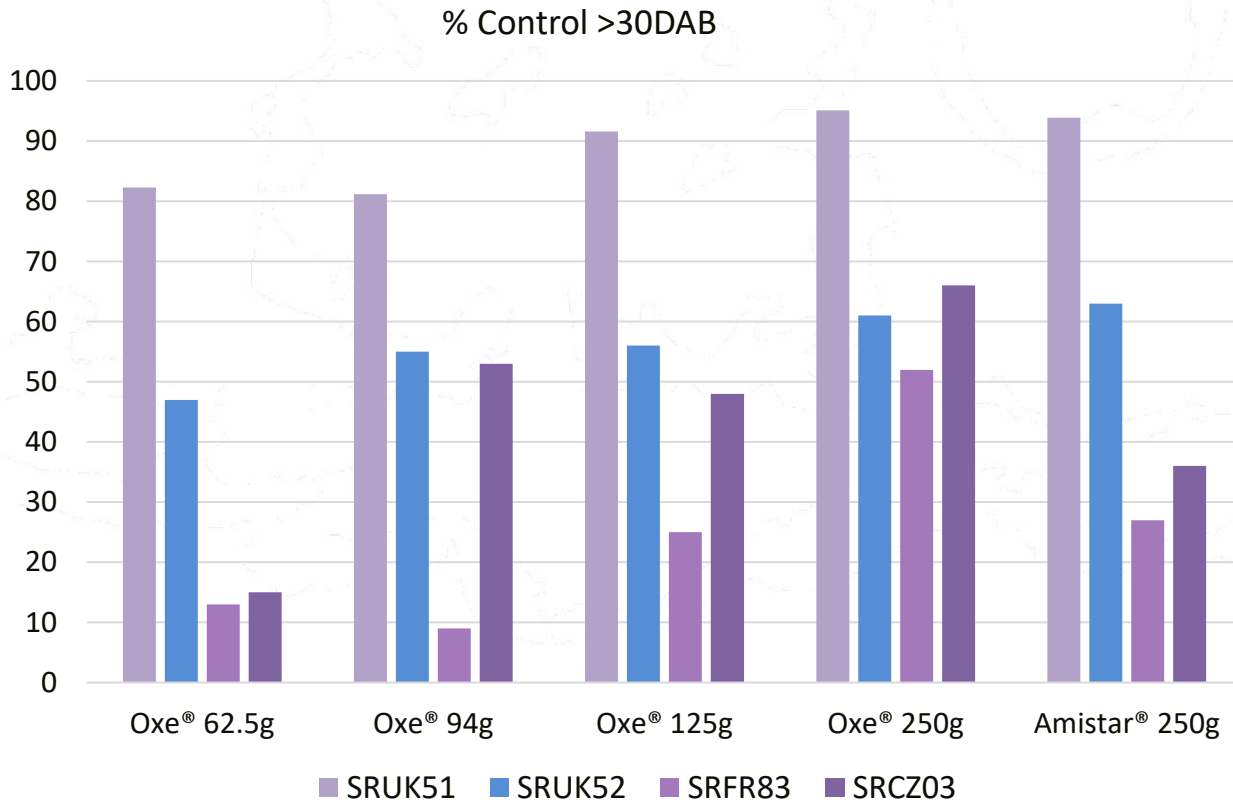
2016:

- Target Wheat: SEPTTR (PUCCSS), Barley: PYRNTE (PUCCSS)
- Good disease levels in many trials in both North & South
- In general across both zones, 125 gai/ha of Oxe[®] was required to consistently match the disease control seen from Amistar[®] / Ortiva[®] against SEPTTR & PYRNTE

Performance summary tables for 2015 & 2016 and summary graph for 2016 follow

TransCel[®] Azoxystrobin – Spring 2016

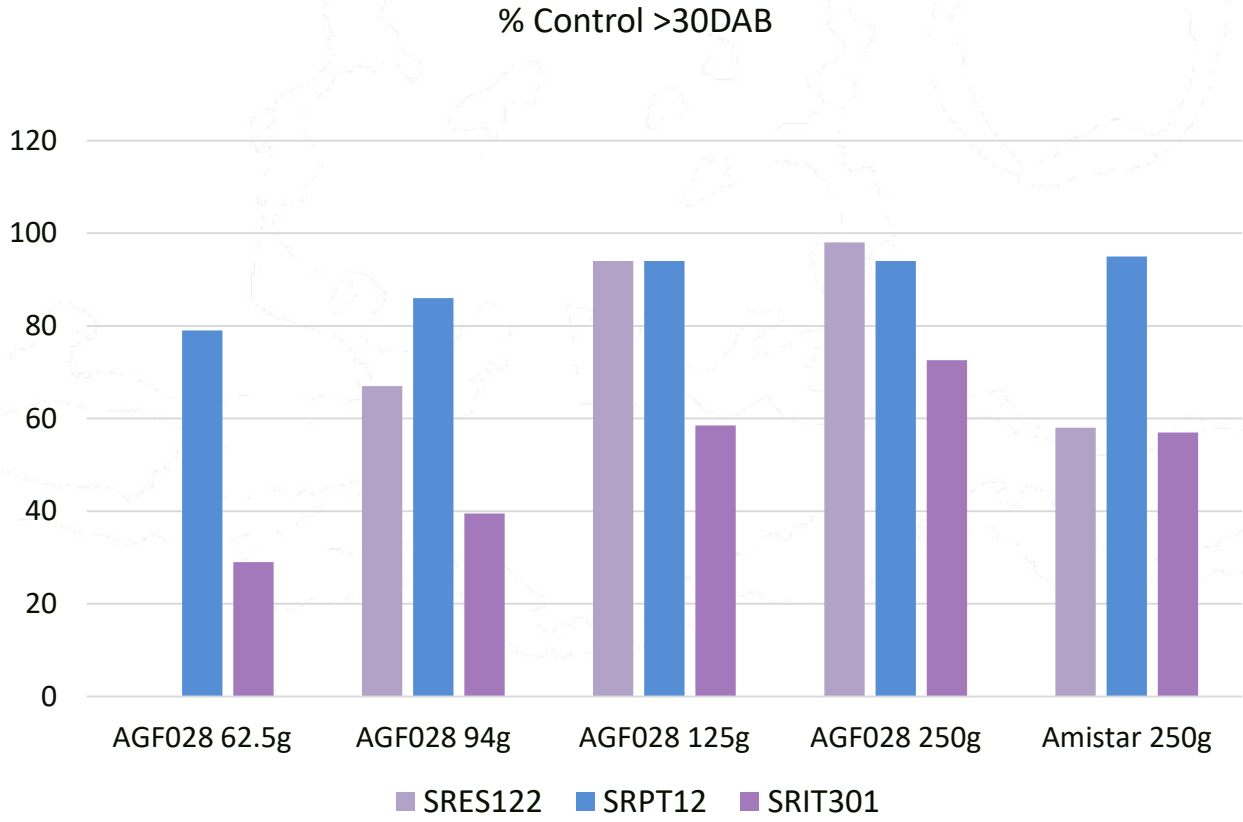
Septoria tritici Control (North)



SEPTTR levels: SRUK51 – 35%, SRUK52 – 90%, SRFR83 – 25%, SRCZ – 38%
DAB = Days after Application B

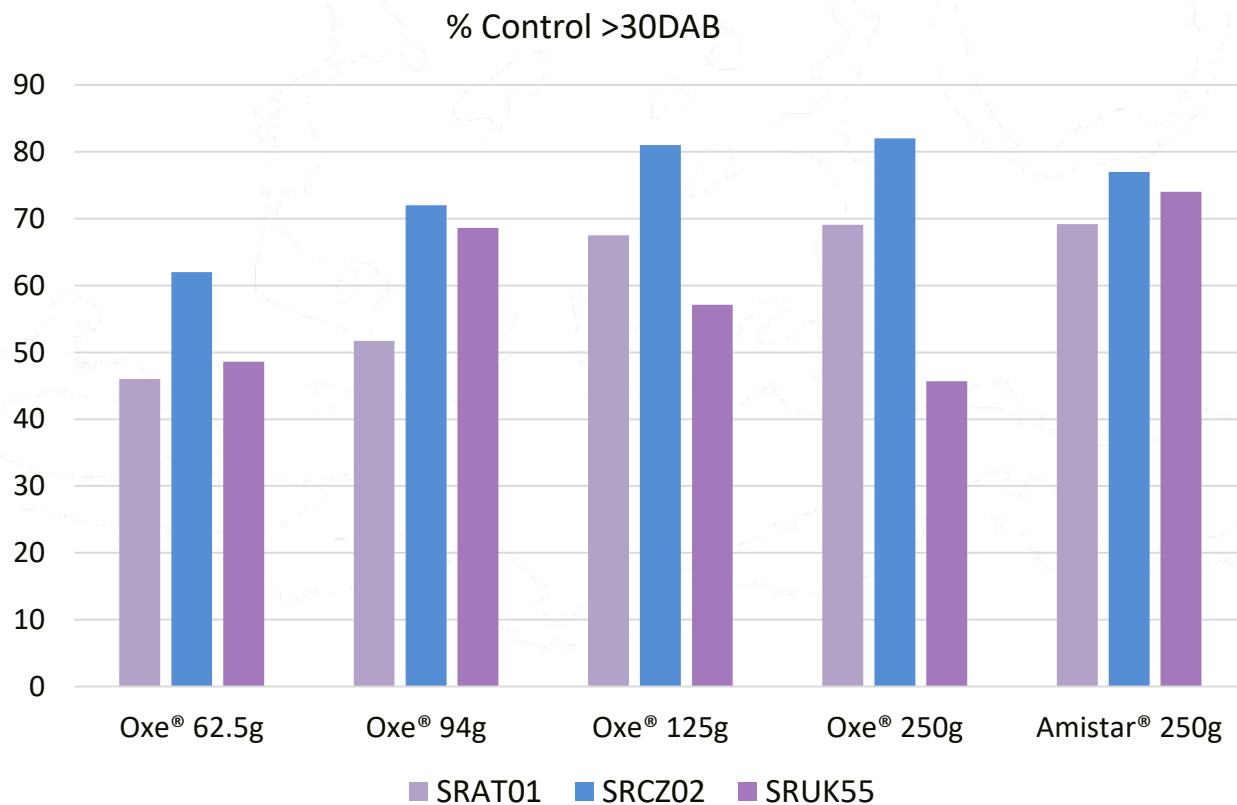
TransCel[®] Azoxystrobin – Spring 2016

Septoria tritici Control (South)



SEPTTR levels: SRES122 – 50%, SRPT12 – 40%, SRIT301 – 3.5%
DAB = Days after Application B

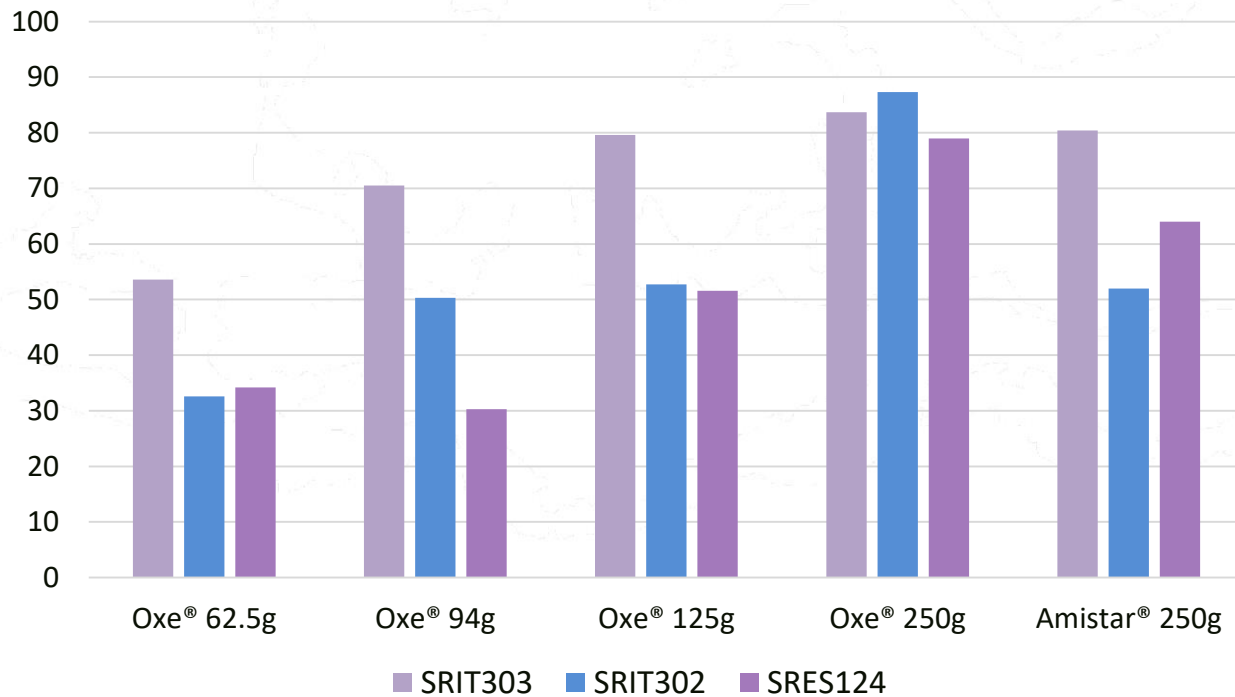
TransCel[®] Azoxystrobin – Spring 2016 *Pyrenophora teres* Control (North)



PYRNT levels: SRAT01 – 22%, SRCZ02 – 78%, SRUK55 – 2.2%,
DAB = Days after Application B

TransCel[®] Azoxystrobin – Spring 2016 *Pyrenophora teres* Control (South)

% Control >30DAB



PYRNTE levels: SRIT303 – 15%, SRIT302 – 41%, SRES124 – 5.5%
DAB = Days after Application B

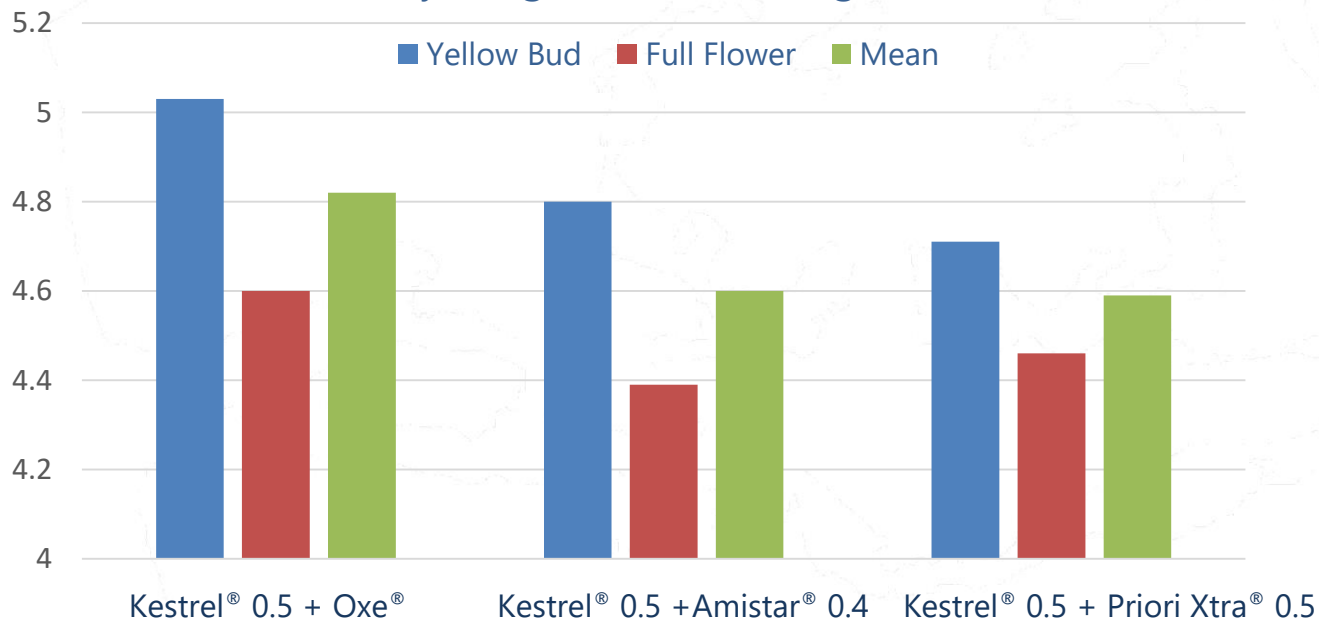


2018 Grower Trials Results

TransCel[®] Azoxystrobin – Spring 2018

Winter Oil Seed Rape Yield

WOSR Flowering Fungicide Trial – Lenham
Yield by Fungicide and Timing



Fungicide Programme	Timing		Mean
	Yellow Bud	Full Flower	
Kestrel [®] 0.5 + Oxe [®] 0.4	5.03	4.60	4.82
Kestrel [®] 0.5 + Amistar [®] 0.4	4.80	4.39	4.60
Kestrel [®] 0.5 + Priori Xtra [®] 0.5	4.71	4.46	4.59
Mean	4.85	4.48	

Yield (t/ha) @ 9% m.c.

Untreated = 4.62t/ha

Oxe[®] Yield Benefits

Winter Oil Seed Rape

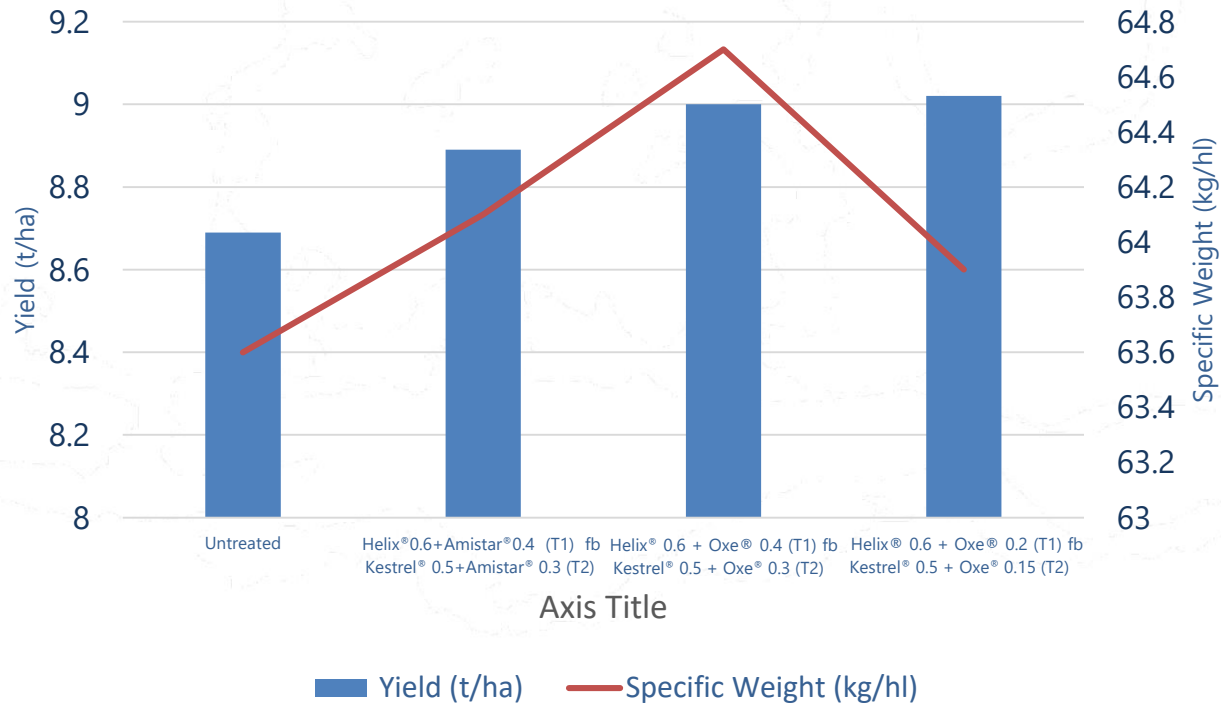
Product	Yield Improvement Value/ha*
Oxe [®]	£60

*Assuming oil seed rape price of £300/tonne

TransCel[®] Azoxystrobin – Spring 2018

Winter Barley Yield

Trial 18121 – Winter Barley Fungicide Programmes Trial – Bacon End
Yield and Specific Weight by Fungicide Programme



Treatment List	Applied: 23/04/2018		Applied: 09/05/2018		Brown Rust (%) 17/05/2018	Yield (t/ha) @15% m.c.		Yield % Untreated 17/07/2018	Specific Weight (kg/hl) 17/07/2018
	Application A - T1 (GS31)		Application B - T2 (GS39-49)			17/07/2018	17/07/2018		
	Product/s	Rate/ha	Product/s	Rate/ha					
1	Untreated		Untreated		1.3	8.69	100.0	63.6	
17	Helix [®] + Amistar [®]	0.6 + 0.4	Kestrel [®] + Amistar [®]	0.5 + 0.3	0.0	8.89	102.3	64.1	
20	Helix [®] + Oxe [®]	0.6 + 0.4	Kestrel [®] + Oxe [®]	0.5 + 0.3	0.0	9.00	103.5	64.7	
21	Helix [®] + Oxe [®]	0.6 + 0.2	Kestrel [®] + Oxe [®]	0.5 + 0.15	0.0	9.02	103.8	63.9	

Oxe[®] Yield Benefits Winter Barley

Product	Specific Weight (kg/hl)	Yield Improvement Value/ha*
Oxe [®]	64.7	£51
Oxe [®] - half rate	63.9	£55
Amistar [®]	64.1	£33

*Assuming barley price of £165/tonne